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[CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN). DAI, Yanzhong [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN). LI, Yan [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN). LIU, Jian [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN).

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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]**; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

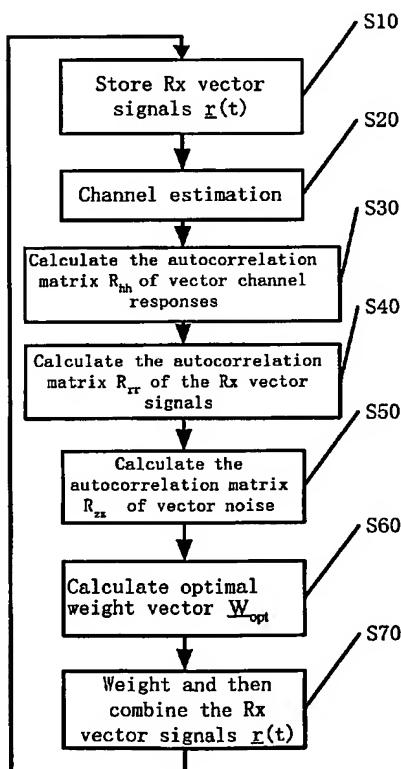
(75) Inventors/Applicants (for US only): **XU, Lvzhou**

(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o HAQUE, Azir, Philips Electronics China, 21/F Kerry, Office Building, 218 Tian Mu Xi Lu Road, Shanghai 200070 (CN).

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(54) Title: METHODS AND APPARATUS OF MULTIPLE ANTENNA RECEIVER



(57) Abstract: A communication method performed by a mobile terminal with multiple antenna elements, comprising steps of: receiving the corresponding Rx vector signals from multiple antenna elements; calculating the suitable weight vector corresponding to the Rx vector signal of each antenna element according to the corresponding Rx vector signals; and obtaining an output signal with maximum SNR by weighting and then combining said Rx vector signals with said corresponding suitable weight vector respectively. With this method, a desirable system performance can be maintained, and the complexity of generating weight vector can be reduced effectively as well.



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